Self-adaptation approaches for energy efficiency

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ID	Citation	Title	Year
P1	Osama Khader, Andreas Willig, and Adam Wolisz. 2016. Self-learning and selfadaptive framework for supporting high reliability and low energy expenditure in WSNs. Telecommunication Systems 61, 4 (2016), 717–731	Self-learning and self-adaptive framework for supporting high reliability and low energy expenditure in WSNs	2016
P2	Xinyu Niu, Kuen Hung Tsoi, and Wayne Luk. 2012. Self-Adaptive Heterogeneous Cluster with Wireless Network. In Parallel and Distributed Processing Symposium Workshops & PhD Forum (IPDPSW), 2012 IEEE 26th International. IEEE, 306–311	Self-Adaptive Heterogeneous Cluster with Wireless Network	2012
P3	Alexandre Mello Ferreira and Barbara Pernici. 2013. Using Intelligent Agents to Discover Energy Saving Opportunities within Data Centers.. In RE4SuSy@ RE.	Using Intelligent Agents to Discover Energy Saving Opportunities within Data Centers.	2013
P4	Antonio Vincenzo Taddeo, Pierpaolo Marcon, and Alberto Ferrante. 2009. Negotiation of security services: a multi-criteria decision approach. In Proceedings of the 4th Workshop on Embedded Systems Security. ACM, 4.	Negotiation of security services: a multi-criteria decision approach	2009
P5	Mohamed Abdelaal, Oliver Theel, Christian Kuka, Peilin Zhang, Yang Gao, Vasilisa Bashlovkina, Daniela Nicklas, and Martin Fränzle. 2016. Improving energy efficiency in QoS-constrained wireless sensor networks. International Journal of Distributed Sensor Networks 12, 5 (2016), 1576038.	Improving energy efficiency in QoS-constrained wireless sensor networks	2016
P6	Frederico Alvares de Oliveira Junior. 2013. Multi Autonomic Management for Optimizing Energy Consumption in Cloud Infrastructures. Ph.D. Dissertation. Université de Nantes	Multi Autonomic Management for Optimizing Energy Consumption in Cloud Infrastructures	2013
P7	Alexandre Mello Ferreira and Barbara Pernici. 2016. Managing the complex data center environment: an integrated energy-aware framework. Computing 98, 7 (2016), 709–749	Managing the complex data center environment: an integrated energy-aware framework	2016
P8	Osama Khader. 2014. Autonomous framework for supporting energy efficiency and communication reliability for periodic data flows in wireless sensor networks. (2014)	Autonomous framework for supporting energy efficiency and communication reliability for periodic data flows in wireless sensor networks	2014
P9	Filippo Sironi. 2014. System support for adaptive performance and thermal management of chip multiprocessors. (2014).	System support for adaptive performance and thermal management of chip multiprocessors	2014
P10	Mohammad Abdullah al Faruque. 2009. Runtime Adaptive System-on-Chip Communication Architecture. Ph.D. Dissertation. Karlsruhe, Univ., Diss., 2009.	Runtime Adaptive System-on-Chip Communication Architecture	2009
P11	Daniele De Sensi, Massimo Torquati, and Marco Danelutto. 2016. A reconfiguration algorithm for power-aware parallel applications. ACM Transactions on Architecture and Code Optimization (TACO) 13, 4 (2016), 43	A Reconfiguration Algorithm for Power-Aware Parallel Applications	2016
P12	Massimiliano Raciti. 2013. Anomaly detection and its adaptation: Studies on cyberphysical systems. Ph.D. Dissertation. Linköping University Electronic Press.	Anomaly detection and its adaptation: Studies on cyber-physical systems	2013
P13	ALEXANDRE MELLO FERREIRA. 2013. Energy aware service based information systems. Ph.D. Dissertation. Italy	Energy aware service based information systems	2013
P14	Chien-Liang Fok. 2009. Adaptive middleware for resource-constrained mobile ad hoc and wireless sensor networks. Washington University in St. Louis	Adaptive middleware for resource-constrained mobile ad hoc and wireless sensor networks	2009
P15	Filippo Seracini. 2014. A Proactive Top-Down Approach to Dynamic Allocation of Resources in Data Centers. University of California, San Diego.	A Proactive Top-Down Approach to Dynamic Allocation of Resources in Data Centers	2014
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P21	Mirko Morandini, Loris Penserini, Anna Perini, and Alessandro Marchetto. 2017. Engineering requirements for adaptive systems. Requirements Engineering 22, 1 (2017), 77–103.	Engineering requirements for adaptive systems	2017
P22	Henry Hoffmann. 2014. Coadapt: Predictable behavior for accuracy-aware applications running on power-aware systems. In Real-Time Systems (ECRTS), 2014 26th Euromicro Conference on. IEEE, 223–232.	Coadapt: Predictable behavior for accuracy-aware applications running on power-aware systems	2014
P23	AMEDEO Asnaghi, M Ferroni, and MD Santambrogio. 2016. DockerCap: A Software-Level Power Capping Orchestrator for Docker Containers. In Computational Science and Engineering (CSE) and IEEE Intl Conference on Embedded and Ubiquitous Computing (EUC) and 15th Intl Symposium on Distributed Computing and Applications for Business Engineering (DCABES), 2016 IEEE Intl Conference on. IEEE, 90–97.	Docker cap: a software-level power capping orchestrator for docker containers	2016

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P43	Holger Giese, Nelly Bencomo, Liliana Pasquale, Andres J Ramirez, Paola Inverardi, Sebastian Wätzoldt, and Siobhán Clarke. 2014. Living with uncertainty in the age of runtime models. In Models@ run. time. Springer, 47–100.	Living with uncertainty in the age of runtime models	2014
P44	Nikita Mishra, Huazhe Zhang, John D Lafferty, and Henry Hoffmann. 2015. A probabilistic graphical model-based approach for minimizing energy under performance constraints. In ACM SIGPLAN Notices, Vol. 50. ACM, 267–281.	A probabilistic graphical model-based approach for minimizing energy under performance constraints	2015
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P46	Pete Sawyer, Raul Mazo, Daniel Diaz, Camille Salinesi, and Danny Hughes. 2012. Using constraint programming to manage configurations in self-adaptive systems. Computer 45, 10 (2012), 56–63.	Using constraint programming to manage configurations in self-adaptive systems	2012
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P52	Sebastian Götz, Thomas Ilsche, Jorge Cardoso, Josef Spillner, Uwe Aßmann, Wolfgang Nagel, and Alexander Schill. 2014. Energy-efficient data processing at sweet spot frequencies. In OTM Confederated International Conferences" On the Move to Meaningful Internet Systems". Springer, 154–171.	Energy-efficient data processing at sweet spot frequencies	2014
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P58	C Cappiello, M Fugini, B Pernici, and P Plebani. 2011. Green information systems for sustainable IT. In Information Technology and Innovation Trends in Organizations. Springer, 153–160.	Green information systems for sustainable IT	2011
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P65	Jiming Jiang and Christian Claudel. 2017. A high performance, low power computational platform for complex sensing operations in smart cities. HardwareX 1 (2017), 22–37.	A high performance, low power computational platform for complex sensing operations in smart cities	2017
P66	Zhuoqun Yang, Zhi Jin, and Zhi Li. 2017. A Model-Based Fuzzy Control Approach to Achieving Adaptation with Contextual Uncertainties. arXiv preprint arXiv:1704.00417 (2017).	A Model-Based Fuzzy Control Approach to Achieving Adaptation with Contextual Uncertainties	2017
P67	Sungchan Kim and Hoeseok Yang. 2017. An Energy-Aware Runtime Management of Multi-Core Sensory Swarms. Sensors 17, 9 (2017), 1955.	An Energy-Aware Runtime Management of Multi-Core Sensory Swarms	2017
P68	Hisham Ahmed and Othman Sidek. 2017. An energy-aware self-adaptive Systemon-Chip architecture for real-time Harris corner detection with multi-resolution support. Microprocessors and Microsystems 49 (2017), 164–178	An energy-aware self-adaptive System-on-Chip architecture for real-time Harris corner detection with multi-resolution support	2017
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P71	Khamla Non-Alisavath, Somphone Kanthavong, Khanthanou Luangxaysana, and Xaythavy Louangvilay. 2017. Context-awareness application to control multiple sensors for monitoring smart environment. In Electrical Engineering/Electronics, Computer, Telecommunications and Information Technology (ECTI-CON), 2017 14th International Conference on. IEEE, 920–923.	Context-awareness application to control multiple sensors for monitoring smart environment	2017
P72	Fahimeh Alizadeh Moghaddam, Giuseppe Procaccianti, Grace A Lewis, and Patricia Lago. 2017. Empirical Validation of Cyber-Foraging Architectural Tactics for Surrogate Provisioning. Journal of Systems and Software (2017).	Empirical Validation of Cyber-Foraging Architectural Tactics for Surrogate Provisioning	2017
P73	Andreas Christoph Bergen. 2017. Energy adaptive digital ecosystems. Ph.D. Dissertation.	Energy Adaptive Digital Ecosystems	2017
P74	Emmanuel Olufemi Urai Adeagbo. 2017. Energy-Efficient Pattern Matching Methods on a Fine-Grained Many-Core Platform. University of California, Davis	Energy-Efficient Pattern Matching Methods on a Fine-Grained Many-Core Platform	2017
P75	Radu Calinescu, Danny Weyns, Simos Gerasimou, Muhammad Usman Iftikhar, Ibrahim Habli, and Tim Kelly. 2017. Engineering Trustworthy Self-Adaptive Software with Dynamic Assurance Cases. IEEE Transactions on Software Engineering (2017).	Engineering Trustworthy Self-Adaptive Software with Dynamic Assurance Cases	2017
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P77	Tyurin, Sergey, and Anton Kamenskih. "Green logic: models, methods, algorithms." *Green IT Engineering: Concepts, Models, Complex Systems Architectures*. Springer, Cham, 2017. 69-86.	Green logic: models, methods, algorithms	2017
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P79	Zhuoqun Yang, Zhi Jin, and Zhi Li. 2017. Modeling Uncertainty and Evolving SelfAdaptive Software: A Fuzzy Theory Based Requirements Engineering Approach. arXiv preprint arXiv:1704.00873 (2017).	Modeling Uncertainty and Evolving Self-Adaptive Software: A Fuzzy Theory Based Requirements Engineering Approach	2017
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P95	Marin Litoiu, Mary Shaw, Gabriel Tamura, Norha M Villegas, Hausi A Müller, Holger Giese, Romain Rouvoy, and Eric Rutten. 2017. What Can Control Theory Teach Us About Assurances in Self-Adaptive Software Systems? In Software Engineering for Self-Adaptive Systems III. Assurances. Springer, 90–134	What Can Control Theory Teach Us About Assurances in Self-Adaptive Software Systems?	2017